Hepatitis Hepatitis Hepatitis Hepatitis Hepatitis Hepatitis Hepatitis Hepatitis Hev epito HBV epito

Epigene c Epigene c Epigene c Epigene c

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Abj09964 Pabj0887 Pabj0887 Pabj0887 Pabj0097 Pabj00045 Pabj00047 P

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us-09-350-401b-638.rag

Perfect score:

Sequence:

OM protein

Run on:

Scoring table:

Searched:

Minimum DB R Maximum DB 8

Database

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Chimeric; pan DR epitope; expression vector; promoter; major histocompatibility complex; MHC; targetting; peptide; epitope; antigen; presentation; class I; cytosolic pathway; endoplasmic reticulum; class II; extracellular antigen; endocytic pathway; helper T lymphocyte; HTL; universal epitope; cytotoxic T lymphocyte; CTL; immune response; HTL; universal epitope; cytotoxic T lymphocyte; fineunicity; assay; vaccine; immunity; infection; pathogen; virus; HIV; HBV; HCV; hepatitis B; hepatitis C; bacterium; protozoan; tummour cell; autoimmune disease; activation; antiviral; antimalarial;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Expression vectors encoding major histocompatibility targeting sequence, used as, e.g. tumor vaccines.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hepatitis B virus (HBV)-derived MHC class I (CTL) epitope, #165.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ishioka GY,
                                                                                                                                                                                                                                                                                                                                                                        ALIGNMENTS
                                                               ABJ10045
ABJ09992
ADK39254
ADK39688
ADO24053
                                                                                                                                                                ADA49425
ADO24103
ADA49427
ADO24105
ADO24060
ADA49429
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ADO24316
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 11; Page 64; 130pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAY73007 standard; peptide; 10 AA
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Hepatitis B virus.
immunoprotective
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15-MAY-1998;
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AAY73007;
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24.173 Million cell updates/sec
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                                                                                                                  June 28, 2005, 08:50:04 ; Search time 160 Seconds
               version 5.1.6
- 2005 Compugen Ltd.
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                                                                                                                                                                                                                                                                                                     2105692 seqs, 386760381 residues
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Maximum Match 100%
Listing first 45 summaries
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ABJ10023
ABJ09911
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ABJ10077
ABJ10067
ABJ1007
ABJ0117
ABJ0117
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geneseqp2002s:*
geneseqp2003as:*
geneseqp2003bs:*
                 GenCore
Copyright (c) 1993
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geneseqp2000s:*
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54
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seq length: 200000000
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Match
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Score

Result No. Sequences AAY72998-Y73086 represent hepatitis B virus (HBV)-derived MHC class I (CTL) epitopes which are claimed for use in the present invention. The invention relates to a novel expression vector comprising

AAY72980 ABJ10187 ABJ10137

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Livingston

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a promoter operably linked to a fusion gene encoding a major histocompatibility complex (MHC) targetting sequence, and two or more heterologous peptide epitopes. The MHC targetting sequence may be a class I targetting sequence, which directs an MHC class I epitope to a cytosolic pathway or to the endoplasmic reticulum, or an MHC class II targetting sequence, which directs extracellular antigens to enter the endocytic pathway to be processed into antigen peptides for presentation on MHC class II molecules. The heterologous epitopes may comprise either helper T lymphocyte (GTL) copitope and a universal HTL epitope such as a pan DR epitope (PADRE). The vectors are useful for stimulating an immune response in vivo, as well as for use in assaying the human immunogenicity of a human T cell peptide for epitope in vivo in a non-human mammal. They provide a nucleic acid vaccine for enhancing immunity against infectious pathogens, such as viruses (e.g., HVV, hepatitis B (HBV and hepatitis (EUCV)) bacteria,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      protozoa (e.g., Plasmodium falciparum, the cause of malaria) and also tumour cells and autoimmune diseases. Universal MHC class II epitopes are advantageously combined with other MHC class I and class II epitopes to increase the number of calls that are activated in response to a given antigen and provide a broader population coverage of MHC-reactive alleles. (Updated on 06-NUG-2003 to correct OS field.)
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Gaps ; 0 100.0%; Score 54; DB 3; Length 10; 100.0%; Pred. No. 0.0024; tive 0; Mismatches 0; Indels Local Similarity 100. nes 10; Conservative Query Match Matches ò

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RESULT 2 AAM99222

AAM99222 standard; peptide; 10 AA.

AAM99222;

(first entry) 07-DEC-2001 Vaccine related MHC ligand peptide SEQ ID NO:325.

Glutamic acid; glutamine; vaccine; major histocompatibility complex; MHC; immunomodulator; antiallergic; endocrine; neuroprotectant; virucidal; bacrericidal; antiparasitic; fungicidal; cytostatic; medicine; pharmaceutical; immune disorder; immune deficiency; autoimmune; hypersensitivity; allergy; graft rejection; infection; hormonal disorder; central nervous system disease; cancer; melanoma; anti-melanoma vaccine; human immunodeficiency virus. 

Hepatitis B virus

WO200170772-A2

27-SEP-2001.

22-MAR-2001; 2001WO-FR000872

23-MAR-2000; 2000FR-00003711.

Goetsch L; Beck A, (FABR ) FABRE MEDICAMENT SA PIERRE. Corvaia N, Klinguer-Hamour C,

WPI; 2001-611470/70.

Stabilized pharmaceutical containing N-terminal glutamic acid or glutamine, useful e.g. in anti-melanoma vaccines, is an addition salt with strong acid.

Claim 9; Page 87; 149pp; French

The present invention relates to a composition comprising at least one hepatitis B virus epitope. This can be used in the production of a vaccine for use in preventing or treating hepatitis B virus infection.

Example 4; Page 214; 228pp; English.

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The present invention describes a pharmaceutical compound (I) that
contains an N-terminal glutamic acid (Glu) or glutamine (Gln) residue in
the form of an addition salt with a strong, physiologically acceptable
acid (II). Also described are: (a) a pharmaceutical composition
containing at least one (I); (b) a vaccine containing at least one (I)
where this is a major histocompatibility complex (MHC) ligand (Ia); (c) a
method for in vitro diagnosis of diseases associated with the presence of
(Ia); (d) a kit for method (c) that includes a (Ia); and (e) a process
(C) propraing (I). (I) has immunomedulator, endocrine, antiallergic,
neuroprotectant, virucidal, bactericidal, antiparasitic, fungicidal and
cytostatic activities. (I) are useful, in human or veterinary medicine,
in pharmaceutical compositions (for treating immune disorders, e.g.
immune deficiency, autoimmune states, hypersensitivity, allergy, araft
rejection, infection, hormonal disorders and central nervous system
(Is as MHC ligand (Ia), in vaccines for
treatment or prevention of: (I) viral, bacterial, parasitic or fungal
infections; or (ii) of cancers. A particular application is in anti-
melanoma vaccines. (I) are also useful for in vitro diagnosis of diseases
associated with interactions between MHC and (I), e.g. melanoma and human
immunodeficiancy virus infection. Amy98992 represent invention
which can be used in pharmaceutical compounds from the present invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises a HBV peptide epitope.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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Celis E, Kubo RT,
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                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 10 AA;
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The present invention relates to a composition comprising at least one hepatitis B virus epitope. This can be used in the production of a vaccine for use in preventing or treating hepatitis B virus infection. The present sequence is a peptide described in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                 Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises a
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                                                                vaccine; HBV infection; hepatitis;
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                                                                Hepatitis B virus; HBV; epitope; vaccine
virucide; hepatotropic; antiinflammatory
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                                        Hepatitis B virus epitope #4119.
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Best Local Similarity
              (first entry)
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Celis E, Kubo RT,
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                                                                                                                                                                                                                                                                                                                                                                                HBV peptide epitope.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 10 AA;
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The present sequence is a peptide described in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises a
                                                                                            Gaps
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                                                                                                                                                                                                                                                                                                                           Hepatitis B virus; HBV; epitope, vaccine; HBV infection; hepatitis;
virucide; hepatotropic; antiinflammatory.
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                                                                100.0%; Score 54; DB 5; Length 10; 100.0%; Pred. No. 0.0024; ive 0; Mismatches 0; Indels
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                                                                                                                                                                                                                  ABJ09911 standard; peptide; 10 AA.
                                                                                                                                                                                                                                                                                                Hepatitis B virus epitope #3863.
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                                                                                           10; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sidney J,
Kubo RT, (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HBV peptide epitope.
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Best Local Similarity
                                                                Query Match
Best Local Similarity
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                invention
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Celis E,
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ABJ10167
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AC ABJ1
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Gaps

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Example 2; Page 200; 228pp; English.
                                                                                                                                                                                                          ABJ09778 standard; peptide; 10 AA.
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                                                                                                                                                                                                                                                                                                      depatitis B virus epitope #3730.
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                                                                                                                                                                                                                                                                       (first entry)
                                                                10; Conservative
                                                                                                                 1 QAFTFSPTYK 10
                                                                                               1 QAFTFSPTYK 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EPIMMUNE INC
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Celis E, Kubo RT,
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                                               Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                  Hepatitis B virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SETTE A.
   Sequence 10 AA;
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                                  Query Match
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                                                                Matches
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                                                                                                                                                                                                     The present invention relates to a composition comprising at least one hepatitis B virus epitope. This can be used in the production of a vaccine for use in preventing or treating hepatitis B virus infection. The present sequence is a peptide described in the exemplification of the
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                                                                                                     Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises HBV peptide epitope.
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                                                                                                                                                                                                                                                                                                                                                                   Gaps
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                               Southwood S, Vitiello MA, Livingstone BD; rey HM, Chesnut RW;
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                                                                                                                                                                                                                                                                                                                                   Length 10;
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100.0%; Pred. No. 0.0024;
ive 0; Mismatches 0; Indels
                                                                                                                                                                           Disclosure; Page 195; 228pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABJ08176 standard; peptide; 10 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hepatitis B virus epitope #2394.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 08-SEP-2000; 2000WO-US024802
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                                               Grey HM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                  1 QAFTESPTYK 10
                                                                                                                                                                                                                                                                                                                                                                                                                  Sidney J,
Kubo RT,
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Kubo RT,
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                                                                             WPI; 2002-643192/69
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                                                                                                                                                                                                                                                                                                                                                  Similarity
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(SETT/) SETTE A.
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                                                                                                                                                                                                                                                                                                    Sequence 10 AA;
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Best Local Simi]
Matches 10; <
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                                                                                                                                                                                                                                                                        invention
                                Sette A,
Celis E,
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Celis E,
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RESULT 7 ABJ08176

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises HBV peptide epitope.
                                                       Gaps
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100.0%; Score 54; DB 5; Length 10; 100.0%; Pred. No. 0.0024;
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                                                     0; Indels
                                                     0; Mismatches
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The present invention relates to a composition comprising at least one hepatitis B virus epitope. This can be used in the production of a vaccine for use in preventing or treating hepatitis B virus infection. The present sequence is a peptide described in the exemplification of the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises a
                                                  Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises HBV peptide epitope.
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100.0%; Pred. No. 0.0024;
ive 0; Mismatches 0; Indels
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 Chesnut RW;
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                                                                                                            Claim 1; Page 217; 228pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                       ABJ10117 standard; peptide; 10 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hepatitis B virus epitope #4069.
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 Grey HM,
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Celis E, Kubo RT,
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                           WPI; 2002-643192/69
Kubo RT,
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hepatitis B virus
                                                                                                                                                                                                                        Sequence 10 AA;
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 Celis E,
                                                                                                                                                                                            invention
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                                                                                                                                                                                                                                                                                                                                                                                                     The present invention relates to a composition comprising at least one hepatitis B virus epitope. This can be used in the production of a vaccine for use in preventing or treating hepatitis B virus infection. The present sequence is a peptide described in the exemplification of the
                                                                                                                                                                                                                                                                                                                    Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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                          Hepatitis B virus; HBV; epitope; vaccine; HBV infection; hepatitis;
virucide; hepatotropic; antiinflammatory.
                                                                                                                                                                                                                                                Sidney J, Southwood S, Vitiello MA, Livingstone BD;
Kubo RT, Grey HM, Chesnut RW;
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Hepatitis B virus epitope #2732
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Best Local Similarity 100.0%;
Matches 10; Conservative 0
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                                                                                                                                                                                                                                                                                                                                                 HBV peptide epitope.
                                                                                                                                                                                                                                                                                          WPI; 2002-643192/69
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                                                                 Hepatitis B virus
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                                                                                                                     14-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                               invention
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Celis E,
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Length 10;

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MHC class I; MHC class II; junctional epitope.
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                                                                                                                                                                                                                                                                                                                                                                          Sequence 10 AA;
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                                                   29-AUG-2002
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(CHES/)
(LIVI/)
(BAKE/)
                                                                                                                                                             (BROW/)
                                                                                                                                                    NEWM/)
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                                                                                                                                                                                                                                                                                                                                Vaccine composition for treating or preventing hepatitis B virus (HBV) infection, and/or for stimulating an immune response to HBV, comprises
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         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                    Hepatitis B virus; HBV; epitope; vaccine; HBV infection; hepatitis; virucide; hepatotropic; antiinflammatory.
                                                                                                                                                                                                                                                                                         Livingstone BD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Score 54; DB 5; Length 10; 100.0%; Pred. No. 0.0024;
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         Indels
Pred. No. 0.0024; 
; Mismatches 0;
                                                                                                                                                                                                                                                                                       Southwood S, Vitiello MA, Grey HM, Chesnut RW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Multi-epitope construct specific epitope #158.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 125; 228pp; English.
                                                                                 ABJ06455 standard; peptide; 10 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADA49616 standard; peptide; 10 AA.
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                                                                                                                                    Hepatitis B virus epitope #673
. 0 %;
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                                                                                                                                                                                                                                                                                                Grey HM,
                                                                                                                                                                                                                                              08-SEP-2000; 2000WO-US024802
                                                                                                                    (first entry)
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100.
       10; Conservative
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                        1 QAFTFSPTYK 10
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                                       OAFTFSPTYK 10
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                                                                                                                                                                                                                                                                                        Sette A, Sidney J,
Celis E, Kubo RT,
                                                                                                                                                                                                                                                                                                                                                  HBV peptide epitope
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Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                            Hepatitis B virus
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Local Sim
10;
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                                                                                                  ABJ06455;
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The invention relates to a method of designing multi-epitope constructs comprising major histocompatibility complex (MHC) class I and II (CTL) epitope nucleic acids (CEN), involves sorting CEN, introducing flanking amino acid residue selected from specified amino acid residues given in specification at C+1 position of CEN introducing amino acid spacer residues between two CEN, and selecting the constructs having less junctional epitopes. The method is useful for designing a multi-epitope construct having multiple epitope nucleic acid. The method avoids or minimises the occurrence of junctional epitopes and maximises the immunogenicity and/or antigenicity of multi-epitope vaccines. The persent sequence represents the amino acid sequence of an epitope present in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Brown DH;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Designing multi-epitope construct having major histocompatability compalss I and II epitope nucleic acids, by selecting mixture of amino acinsertions at junctions of construct to minimize junctional epitopes.
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                                                                                                                                                                                                                                                                                        28-DEC-1999; 99US-0173390P.
28-DEC-2000; 2000WO-US035568.
16-APR-2001; 2001US-0284221P.
                                                                                                                                                                                                                       27-JUN-2001; 2001US-00894018
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CHESNUT R.
LIVINGSTON B D
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Hepatitis B virus
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The invention relates to a hepatitis B virus (HBV) vaccine composition comprising a pharmaceutical carrier and an isolated peptide less than 25 or less than 15 amino acids in length. The invention also relates to a method of inducing a cytotoxic T-cell response to HBV in a mammal and a method of monitoring immunogenic activity of the vaccine in a patient having a known human leukocyte antigen (HLA) type. The composition and methods are useful for preventing and treating HBV infection. This sequence represents an HBV epitope used in the scope of the invention. Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic format directly from USPTO
                                                                                                                                                                                                                                                                                                                                                                                                             Hepatitis B virus (HBV) vaccine composition useful for inducing cellular immune responses to HBV or for preventing and treating HBV infection.
                                                                                                                                                                                                                                                                                                                                       Southwood S, Vitiello MA, Livingston BD; srey HM, Chesnut RW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%; Score 54; DB 8; Length 10; 100.0%; Pred. No. 0.0024; Live 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; SEQ ID NO 2534; 73pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     at segdata.uspto.gov/sequence.html
                                                                    920S-00874491
920S-0092666
920S-00025116
930S-00027146
930S-00073205
930S-00197484
940S-00197484
940S-00347610
960S-001347610
970S-00947610
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Kubo RT,
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05-MAR-1993
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25-NOV-1997
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Celis E,
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comprising a pharmaceutical carrier and an isolated peptide less than 25 or less than 15 amino acids in length. The invention also relates to a method of inducting a cytotoxic T-cell response to HBV in a mammal and a method of monitoring immunogenic activity of the vaccine in a patient having a known human leukcoyte antigen (HLA) type. The composition and methods are useful for preventing and treating HBV infection. This sequence represents an HBV epitope used in the scope of the invention. Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic format directly from USPTO at sequence.html.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a hepatitis B virus (HBV) vaccine composition
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100.0%; Pred. No. 0.0024;
tive 0; Mismatches 0; Indels
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HBV; cytotoxic T-cell response; immunogenic activity; human leukocyte antigen; HLA; HBV infection; HBV epitope; antiinflammatory; hepatotropic; virucide.

Hepatitis B virus

US6689363-B1

Hepatitis B virus (HBV) epitope #603.

06-MAY-2004 (first entry)

ADK37735;

ADK37735 standard; peptide; 10 AA.

RESULT 15 ADK37735

Hepatitis B virus (HBV) vaccine composition useful for inducing cellular immune responses to HBV or for preventing and treating HBV infection.

Sidney J, Southwood S, Vitiello MA, Livingston BD; Kubo RT, Grey HM, Chesnut RW;

98US-00189702

(EPIM-) EPIMMUNE INC.

WPI; 2004-141419/14

Sette A, Celis E,

920S-00874491 920S-00926666 920S-0092811 930S-00027146 930S-00073205 930S-00173205 940S-0017484 940S-00205713 940S-00347610 960S-0013363P 970S-00847610

06-AUG-1993 04-MAR-1994 23-NOV-1994 01-DEC-1994

99US-00239043

27-JAN-1999; 10-FEB-2004

26-AUG-1992 05-MAR-1993

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SEQUENCE FROM N.A.

Murphy M.A., Imamichi T.;

Submitted (JAN-2001) to the EMBL/GenBank/DDBJ databases.

EMBL; AF833814; AAK21897.1; -.

GO; GO:0004523; F:ribonuclease H activity; IEA.

InterPro; IPR001462; DNApol_viral_C.
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01-MAR-2001 (TrEMBLrel. 16,
01-MAR-2001 (TrEMBLrel. 16,
01-MAR-2004 (TrEMBLrel. 26,
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01-JUN-2001 (TEMBLrel. 17,
01-JUN-2003 (TEMBLrel. 24,
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08b4f6 hepatitis
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                                                                                          June 28, 2005, 08:51:07; Search time 167 Seconds (without alignments) 30.663 Million cell updates/sec
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           GenCore version
Copyright (c) 1993 - 2005
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Q678B9
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Q9YKJB
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DPOL HPBVZ
DPOL HPBVZ
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Maximum Match 1008
Listing first 45 summaries
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2: uniprot_trembl:*
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Maximum DB seq length: 200000000
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A hang L.X., Chen J.M.;

XT The preliminary study on individually characterized quasispecies of
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Q804c2 hepatitis b
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Hepatitis B virus.
Viruses; Retroid viruses; Hepadnaviridae; Orthohepadnavirus.
NCBI_TaxID=10407;
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NCBI_TaxID=10407;
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Q7THR7
Q07THR7
Q90505
Q901582
Q911N8
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STRAIN=A3;
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Q991K9;
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                         RESULT 4
Q991K9
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Wang G., Li L., Si C.W.;

"The study on quasispecies of hepatitis B virus: reverse transcriptase region in polymerase gene as an example.";

Jie Fang Jun Yi Xue Za Zhi 26:823-825(2002).

EMBL; AF337736; AAK19542.1; -..

EMBL; AF337736; AAK19542.1; -..

GO; GO:0004723; F:RNA binding; IEA.

GO; GO:0003964; F:RNA-directed DNA polymerase activity; IEA.

GO; GO:001723; F:RNA-directed DNA polymerase activity; IEA.

GO; GO:0016749; F:RNA-dependent DNA replication; IEA.

InterPro; IPR001462; DNApol_viral_C.

InterPro; IPR001477; RVT8e.
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Dong J., Cheng J., Wang Q.H., Shi S.S., Hong Y., Huangfu J.K.,
Wang G., Li L., Si C.W.;
"The study on quasispecies of hepatitis b virus: reverse transcriptase
region in polymerase gene as an example.";
Ping Tu Hsueh Pao 17:270-272(2001).
                                                                                             Gaps
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                                                                                                                                                                                                                                                                    Viruses; Retroid viruses; Hepadnaviridae; Orthohepadnavirus.
                                                                100.0%; Score 54; DB 2; Length 136; 100.0%; Pred, No. 0.0069; Live 0: Mismatches 0; Indels
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                                 136 136
136 AA; 14870 MW; 9AB07B1605E504D7 CRC64;
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01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
01-JUN-2003 (TrEMBLrel. 25, Last annotation update)
POlymerase (Fragment).
                                                                   Query Match
100.0%; Score 54; DB
Best Local Similarity 100.0%; Pred. No. 0.00
Matches 10; Conservative 0; Mismatches
                                                                                                                                                                                                  342 AA.
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Probom; PD000818; NYT 1; 2.
Probom; PD000814; DNAPOl viral C; 1.
RNA-directed DNA POIVMENTS C; 1.
NON TER 1 1 1 1 NON TER 342 342 SEQÜENCE 342 AA; 38337 MM; EPAD916096;
PRT;
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les 10; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=A3;
Dong J., Cheng J., Huangfu J.K., Hong Y., Wang G., Chen C.G., Li L.,
Zhang L.X., Chen J.M.;
"The preliminary study on individually characterized quasispecies of
hepatitis B virus.";
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Jie Fang Jun Xi Xue Za Zhi 26:823-825(2002).

EMBL, AF33735; AAK19540.1;
GO; GO:0004523; F:ribonuclease H activity; IEA.
GO; GO:0003723; F:RNA binding; IEA.
GO; GO:0003964; F:RNA-directed DNA polymerase activity; IEA.
GO; GO:000578; P:RNA-dependent DNA replication; IEA.
InterPro; IPR001462; DNApol_viral_C.
InterPro; IPR004477; RVTSe.
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Hepatitis B virus.
Viruses; Retroid viruses; Hepadnaviridae; Orthohepadnavirus.
NCBI_TaxID=10407;
                                                                                                                                                          Viruses; Retroid viruses; Hepadnaviridae; Orthohepadnavirus.
NCBI_TaxID=10407;
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342 AA; 38351 MW; 1C18C13320A88B68 CRC64;
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Q91L1;
Q91L1;
(TrEMBLrel. 17, Created)
01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
01-JUN-2003 (TrEMBLrel. 25, Last annotation update)
                                                                           Last sequence update)
Last annotation update)
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342 AA
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Pfam; PF00078; RVT_1; Z.
rvcDom; PD000814; DNApol_viral_C; 1.
RNA-directed DNA polymerase; Transferase.
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                                              01-JUN-2001 (TrEMBLrel. 17, Created) 01-JUN-2001 (TrEMBLrel. 17, Last seq 01-OCT-2003 (TrEMBLrel. 25, Last ann Polymerase (Fragment).
PRT;
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PRELIMINARY;
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                                                                                                                                                       Hepatitis B virus.
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C STRAIN=B7;

A Dong J., Cheng J., Wang Q.H., Shi S.S., Hong Y., Huangfu J.K.,
A Mong G., Li L., Si C.W.;
A Wang G., Li L., Si C.W.;
A Wang G., Li L., Si C.W.;

T'The study on quasispecies of hepatitis B virus: reverse transcriptase

RT region in polymerase gene as an example.";

Jie Fang Jun Yi Xue Za Zhi Ze:823-825(2002).

EMBL, AF335733; AAK19536.1;

DR GO; GO:0003723; F:RNA binding; IEA.

GO; GO:0003723; F:RNA binding; IEA.

GO; GO:0003723; F:RNA-directed DNA polymerase activity; IEA.

GO; GO:0003729; F:RNA-dependent DNA replication; IEA.

BR GO; GO:0006278; P:RNA-dependent DNA replication; IEA.

BR GO; GO:0006278; P:RNA-dependent DNA replication; IEA.

BR InterPro; IPR001462; DNApol_viral_C.
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"The study on quasippecies of hepatitis b virus: reverse transcriptase region in polymerase gene as an example.";
Ping Tu Hsueh Pao 17:270-272(2001).
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"The preliminary study on individually characterized quasispecies of hepatitis B virus.";
Jie Fang Jun Yi Xue Za Zhi 27:119-121(2002).
"The preliminary study on individually characterized quasispecies of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Polymerase (Fragment).
Hepatitis B virus.
Viruses; Retroid viruses; Hepadnaviridae; Orthohepadnavirus.
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01-WAR-2001 (TrEMBLrel. 16, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
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100.0%; Pred. No. 0.019;
tive 0; Mismatches 0;
                                     hepatitis B virus.";
Jie Fang Jun Yi Xue Za Zhi 27:119-121(2002)
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Pfam; PF00078; RVT_1; Z.
ProDom; PD000814; DNApol_viral_C; 1.
RNA-directed DNA polymerase; Transferase.
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Matches 10; Conservative
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01-MAR-2001
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                                                                                                 Dong J., Cheng J., Wang Q.H., Shi S.S., Hong Y., Huangfu J.K., Wang G., Li L., Si C.W.; "The study on quasispecies of hepatitis b virus: reverse transcriptase region in polymerase gene as an example."; Ping Tu Hsueh Pao 17:270-272(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
STRAIN=B11;
Dong J., Cheng J., Wang Q.H., Shi S.S., Hong Y., Huangfu J.K.,
Wang G., Li L., Si C.W.;
"The study on quasispecies of hepatitis B virus: reverse transcriptase region in polymerase gene as an example.";
Jie Fang Jun Yi Xue az az hi 26:823-825(2002).
EMBL; AF335734; AAK19538.1;
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Dong J., Cheng J., Wang Q.H., Shi S.S., Hong Y., Huangfu J.K.,
Wang G., Li L., Si C.W.;
"The study on quasispecies of hepatitis b virus: reverse transcriptase
region in polymerase gene as an example.";
Ping Tu Hsueh Pao 17:270-272(2001).
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"The preliminary study on individually characterized quasispecies of
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Dong J., Cheng J., Huangfu J.K., Hong Y., Wang G., Chen C.G., Li L.,
Zhang L.X., Chen J.M.;
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GO; GO:0004523; F:ribonuclease H activity; IEA.
GO; GO:0003543; F:RNA binding; IEA.
GO; GO:0003564; F:RNA-directed DNA polymerase activity; IEA.
GO; GO:0016740; F:transferase activity; IEA.
GO; GO:0016740; F:transferase activity; IEA.
InterPro; IPR001462; DNApol viral_C.
InterPro; IPR001477; RVTse.
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Viruses, Retroid viruses, Hepadnaviridae, Orthohepadnavirus.
NCBI_TaxID=10407;
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Pred. No. 0.019;
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(TrEMBLrel. 17, Last sequence update)
(TrEMBLrel. 25, Last annotation update)
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Jie Fang Jun Yi Xue Za Zhi 27:119-121(2002)
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NON TER 345 345
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Pfam; PF00078; RVT_1; Z.
ProDom; PD000814; DNApol_viral_C; 1.
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Dong J., Cheng J., Wang Q.H., Shi S.S., Hong Y., Huangfu J.K., Wang G., Li L., Si C.W.;
Wang G., Li L., Si C.W.;
"The study on quasispecies of hepatitis B virus: reverse transcriptase region in polymerase gene as an example.";
Jie Fang Jun Yi Xue Za Zhi 26:823-825(2002).

EMBL, AF329863; AAG48747.1;
-CO, GO:0004723; F:RNA binding; IEA.
GO; GO:0003723; F:RNA binding; IEA.
GO; GO:0003723; F:RNA-directed DNA polymerase activity; IEA.
GO; GO:0006783; P:RNA-directed DNA polymerase activity; IEA.
GO; GO:0006278; P:RNA-directed DNA replication; IEA.
InterPro; IPR001462; DNApol_viral_C.
InterPro; IPR001477; RVTse.
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"The preliminary study on individually characterized quasispecies of hepatitis B virus.";
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Viruses; Retroid viruses; Hepadnaviridae; Orthohepadnavirus
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MAN_directed DNA polymerase; Transferase.
NON_TER 345 345 NON_TER 345 MON_TER TRANSPERSE.
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F00078; RVT 1; 2.
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      332 QAFTFSPTYK 341
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Dong J., Cheng J., Wang Q.H., Shi S.S., Hong Y., Huangfu J.K.,

Wang G., Li L., Si C.W.;

"The study on quasispecies of hepatitis b virus: reverse transcriptase
region in polymerase gene as an example.";

Ping Tu Hsueh Pao 17:270-272(2001).
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"The preliminary study on individually characterized quasispecies of
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Jie Fang Jun Yi Xue Za Zhi 26.823-825 (2002).
BEMBL, AR329864; AAG48749.1;
GO; GO:0004523; F:ribonuclease H activity; IEA.
GO; GO:0003723; F:RNA binding; IEA.
GO; GO:0003964; F:RNA-directed DNA polymerase activity; IEA.
GO; GO:0016740; F:transferase activity; IEA.
GO; GO:0016740; F:transferase activity; IEA.
InterPro; IPR001422; NAMA-dependent DNA replication; IEA.
InterPro; IPR001477; RVTse.
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Viruses; Retroid viruses; Hepadnaviridae; Orthohepadnavirus.
NCBI_TaxID=10407;
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                                                                                                                                                                                                                                                                                                                                                     100.0%; Score 54; DB 2; Length 345; 100.0%; Pred. No. 0.019;
                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
                                                                                                                                                                                                                                                      345 AA; 38774 MW; 9A7D6305C4B3F5A3 CRC64;
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345 AA; 38774 MW; 9A7D6305C4B3F5A3 CRC64;
GO; GO:0006278; P:RNA-dependent DNA replication; IEA.
InterPro; IPR001462; DNApol_viral_C.
InterPro; IPR000477; RVTse.
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01-WAR-2001 (TrEMBLrel. 16, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Polymerase (Fragment).
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Jie Fang Jun Yi Xue Za Zhi 27:119-121(2002)
                                                                                                                                                                                                                                                                                                                                                                                                                   0; Mismatches
                                                                                        Pfam; PF00336; DNA pol viral C; 1.
Pfam; PF00078; RVT 1; 2.
ProDom; PD000814; DNApol viral C; 1.
Prodom; PD000814; DNApol viral C; 1.
NON TER 1 1
NON TER 345 345
SEQÜENCE 345 AA; 38774 MW; 9A7D6305C4
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Pfam; PF00078; RVT_1; 2.
ProDom; PD000814; DNApol_viral_C; 1.
RNA-directed DNA polymerase; Transferase.
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Best Local Similarity 100.º
Matches 10; Conservative
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Viruses; Retroid viruses; Hepadnaviridae; Orthohepadnavirus.
NCBI_TaxID=10407;
                                                  Match 100.0%; Score 54; DB 2; Length 345; Local Similarity 100.0%; Pred. No. 0.019; les 10; Conservative 0; Mismatches 0; Indels
345 345
345 AA; 38788 MW; 76AD6313A86D3A6B CRC64;
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01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-CTT-2003 (TrEMBLrel. 25, Last annotation update)
Polymerase (Fragment).
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Wang G., Li L., Si C.W.;

"The study on quasispecies of hepatitis B virus: reverse transcriptase region in polymerase gene as an example.";

"Lie Fang Jun Yi Kue Za Zhi 26:823-825 (2002).

"BMBL; AF329859; AAG48740.1; -
"R GO; GO:0003723; F:RNA binding; IEA.

"GO; GO:0003723; F:RNA binding; IEA.

"GO; GO:0003964; F:RNA-directed DNA polymerase activity; IEA.

"GO; GO:0006278; F:RNA-directed DNA polymerase activity; IEA.

"GO; GO:0006278; P:RNA-dependent DNA replication; IEA.

"R GO; GO:0006278; P:RNA-dependent DNA replication; IEA.

"R InterPro; IPR00047; RVTse."

"R InterPro; IPR000477; RVTse."

"R Ffam; PF00336; DNA pol_viral_C; 1.

"P FroDom; PD000814; DNApol_viral_C; 1.

"P FroDom; PD000814; DNApol_viral_C; 1.

"R NNA-directed DNA polymerase; Transferase.

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"The study on quasispecies of hepatitis B virus: reverse transcriptase region in polymerase gas an example.";
Jie Fang Jun Yi Xue Za Zhi 26:823-825(2002).
EMBL; AF329858; AAG48737.1;
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GO; GO:0004523; F:ribonuclease H activity; IEA.
GO; GO:0003723; F:RNA binding; IEA.
GO; GO:0003964; F:RNA-directed DNA polymerase activity; IEA.
GO; GO:0016740; F:rransferase activity; IEA.
GO; GO:0006278; P:RNA-dependent DNA replication; IEA.
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Viruses; Retroid viruses; Hepadnaviridae; Orthohepadnavirus.
                                                                                                                                                                                                                                                                                                                                                   Length 345;
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RNA-directed DNA polymerase; Transferase.
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Interpro; IPR000477; RVTse.
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              Dong J., Cheng J., Wang Q.H., Shi S.S., Hong Y., Huangfu J.K., Wang G., Li L., Si C.W.; The study on quasippecies of hepatitis b virus: reverse transcriptase region in polymerase gene as an example.";
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                                                                                                                                                                                                                                                                                                 "The study on quasispecies of hepatitis B virus: reverse transcriptase
                                                                                                                    SEQUENCE FROM N.A.

Dong J., Cheng J., Huangfu J.K., Hong Y., Wang G., Chen C.G., Li L.,
Zhang L.X., Chen J.M.;

"The preliminary study on individually characterized quasispecies of
hepatitis B virus.";

Jie Fang Jun Yi Xue Za Zhi 27:119-121(2002).
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Dong J., Cheng J., Huangfu J.K., Hong Y., Wang G., Chen C.G., Li L.,
Zhang L.X., Chen J.M.;
"The preliminary study on individually characterized quasispecies of
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                                                                                                                                                                                                                                                                                                         region in polymerase gene as an example.";
Jie Fang Jun Yi Xue Za Zhi 26:823-825 (2002).

BMBL; AF329861; AAG48743.1;
GO; GO:0004523; F:ribonuclease H activity; IEA.
GO; GO:0003723; F:RNA binding; IEA.
GO; GO:0003964; F:RNA-directed DNA polymerase activity; IEA.
GO; GO:0006278; F:RNA-dependent DNA replication; IEA.
InterPro; IFR001462; DNApol_viral_C.
InterPro; IRR000477; RVTse.
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NCBI_TaxID=10407;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                345 AA; 38728 MW; 6A49E103CA8536B8 CRC64;
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01-WAR-2001 (TrEMBLrel. 16, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
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ProDom; PD000814; DNApol_viral_C; 1
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es 10; Conserv
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Q9DKQ1;
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100.0%; Score 54; DB 2; Length 540;
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Pfam; PF00242; DNA_pol_viral_N; 1.
Pfam; PF00078; RVT_1; 2.
ProDom; PD000814; DNApol_viral_C; 1.
RNA-directed DNA_polymerase; Transferase.
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MEDLINE=87059755; PubMed=3783127;
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MEDLINE=92294549; PubMed=7775946;
A Uchida T., Gotoh K., Shikata T.;
Tomplate nuclectide sequences and the characteristics of two hepatitis B virus mutants causing serologically negative acute or chronic hepatitis B.";
T. March 145:247-252 (1995).
I. J. Med. Virol. 45:247-252 (1995).
R GO; GO:0003677; F:DNA-binding; IEA.
GO; GO:0003677; F:DNA-directed DNA polymerase activity; IEA.
R GO; GO:0003723; F:RNA binding; IEA.
R GO; GO:0003723; F:RNA binding; IEA.
R GO; GO:0003964; F:RNA-directed DNA polymerase activity; IEA.
R GO; GO:00046740; F:RNA-directed DNA polymerase activity; IEA.
R GO; GO:0006278; P:RNA-directed DNA replication; IEA.
R GO; GO:0006278; P:RNA-directed DNA replication; IEA.
R GO; GO:0006278; P:RNA-directed DNA replication; IEA.
R InterPro; IPR001201; Pumpol_viral_N.
R InterPro; IPR001201; Pumpol_viral_N.
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Viruses; Retroid viruses; Hepadnaviridae; Orthohepadnavirus.
NCBI_TaxID=10407;
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Viruses; Retroid viruses; Hepadnaviridae; Orthohepadnavirus.
                                                           Query Match 100.0%; Score 54; DB 2; Length 345; Best Local Similarity 100.0%; Pred. No. 0.019; Matches 10; Conservative 0; Mismatches 0; Indels
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345 AA; 38719 MW; 940F2AEFC80A01EF CRC64;
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01-FEB-1997 (TrEMBLrel. 02, Last sequence update)
01-OCT-2003 (TEMBLrel. 25, Last annotation update)
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01-FEB-1997 (TrEMBLrel. 02, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
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Pfam; PF00336; DNA_pol_viral_C; 1.
Pfam; PF000242; DNA_pol_viral_N; 1.
Pfam; PF00078; RVT 1; 2.
ProDom; PF000814; DNApol_viral_C; 1.
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Matches 10; Conservative
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MEDLINE=95294549; PubMed=7775946;
Uchida T., Gotoh K., Shikata T.;
Uchida T., Gotoh K., Shikata T.;
T. "Complete nucleotide sequences and the characteristics of two
AT "Complete nucleotide sequences and the characteristics of two
AT "Complete nucleotide sequences and the characteristics of two
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AT "Complete";
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NCBI_TaxID=10407;
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Pfam; PP00078; RVT_1; 2.
Probons; PD000814; DNApol viral C; 1.
Probons; PD000814; DNApol viral C; 1.
RNA-directed DNA polymerase; Transferase.
RAO AA; 60364 MW; 80446CA7C80F998A CRC64;
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01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
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Best Local Similarity 100.0%; Pred. No. 0.032; Matches 10; Conservative 0; Mismatches 0; Indels

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Search completed: June 28, 2005, 09:13:30 Job time : 168 secs

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APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esteban
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITX: CASTAIN CASTAIN COMPUTEX READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: EM COMPATIBLE
MEDIUM TYPE: Diskette
COMPUTER: DOS
OPTRATING SYSTEM: DOS
SOFTWARE: PeatsENG for Windows Version 2.0
CURRATINA APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
TT.ING DATE: 29-NOV-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEE: Townsend and Townsend and Crew LLP: Two Embarcadero Center, Bighth Floor San Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION 1424
PRIOR APPLICATION DATE: 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber Ellen Lauver
REGISTRATION NUMBER: 32,762
                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 374, Application US/08159339A Patent No. 6037135 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: 0
TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (415) 576-0200
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LENGTH: 10 amino acids
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRANDEDNESS: single
TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 1
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Sequence 159, App
Sequence 1917, App
Sequence 1917, App
Sequence 2534, Ap
Sequence 266, App
Sequence 266, App
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                                                                                                     June 28, 2005, 09:04:13; Search time 42 Seconds (without alignments) 17.774 Million cell updates/sec
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.: /cgn2_6/ptodata1/liaa/5B_COMB.pep:*
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.: /cgn2_6/ptodata1/liaa/6B_COMB.pep:*
.: /cgn2_6/ptodata1/liaa/BCOMB.pep:*
.: /cgn2_6/ptodata1/liaa/PCTUS_COMB.pep:*
.: /cgn2_6/ptodata1/liaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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US-09-239-043D-2534
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US-09-311-784A-137
US-09-311-784A-137
US-09-39-043D-2556
US-09-531-502B-49
US-08-591-502B-60
US-08-591-502B-61
US-08-591-502B-62
US-08-591-502B-63
US-08-591-502B-63
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US-08-591-502B-59
                                                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                 513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Post-processing: Minimum Match 0% The Maximum Match 100% Listing first 45 summaries
                                                                      - protein search, using sw model
                                                                                                                                                                                                                                                                              Gapop 10.0 , Gapext 0.5
                                                                                                                                                                         US-09-350-401B-638
54
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Maximum DB seq length: 200000000
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Match Length DB
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                                                                                                                                                                                                                                                             BLOSUM62
                                                                                                                                                                                 Title:
Perfect score:
                                                                                                                                                                                                                                                             Scoring table:
                                                                      OM protein
                                                                                                                                                                                                                                                                                                                 Searched:
                                                                                                                                                                                                                        Sequence:
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                                                                                                           Run on:
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018623-005030US

374:

## ALIGNMENTS

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Lithwood, Scott

Vitiallo, Maria M.

Jii Litingston, Enian D.

Jiii Litingston, Enian D.

Jiii Litingston, Enian D.

Jiii Litingston, Enian D.

Jiiii Compositions and Mucleic Acid Compositions in the National Inc.

ITILE OF INVENTION: Using Peptide and Nucleic Acid Compositions in the National Montal 1997-01.27

FRIDS PELICATIC NAVERS: US 00/713,702

FRIDS PELICATION NAMES: US 00/713,707

FRI
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Similarity 100.0%; Pred. No. 0.00098;
10; Conservative 0; Mismatches 0;
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Best Local Similarity
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APPLICANT: Celis, Esteban
APPLICANT: Celis, Esteban
APPLICANT: Kubo, Raiph T.
APPLICANT: Gresnut, Robert
APPLICANT: Chesnut, Robert
APPLICANT: Epimmune Inc.
TITLE OF INVENTION: Inducing Cellular Immune Responses to Hepatitis B Virus
FILE REFERENCE: 2060.0060007
                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:

APPLICANT: Fikes, John D.

APPLICANT: Fikes, John D.

APPLICANT: Sette, Alessandro.

APPLICANT: Ishicks, Glenn Y.

APPLICANT: Ishicks, Glenn Y.

APPLICANT: Livingston, Brian

APPLICANT: Livingston, Brian

APPLICANT: Epimmune Inc.

TITLE OF INVENTION: Expression Vectors for Stimulating an

TITLE OF INVENTION: 1990-05-13

CURRENT APPLICATION NUMBER: US/09/311,784A

CURRENT FILING DATE: 1999-05-15

PRIOR APPLICATION NUMBER: US 60/085,751

PRIOR PRICE APPLICATION NUMBER: US 60/085,751

PRIOR PRICE APPLICATION NUMBER: US 60/085,751

PRIOR FILING DATE: 1998-05-15

NUMBER OF SEQ ID NOS: 463

SEQ ID NO 159

LENGTH: 10
                                                                                                                               Gaps
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                                                              100.0%; Score 54; DB 3; Length 10; 100.0%; Pred. No. 0.00098;
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100.0%; Score 54; DB 4; I
Best Local Similarity 100.0%; Pred. No. 0.00098;
Matches 10; Conservative 0; Mismatches 0;
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                                                                                                                            0; Mismatches
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PRIOR FILING DATE: 1998-11-10
PRIOR APPLICATION NUMBER: US 08/978,291
PRIOR FILING DATE: 1997-11-25
                                                                                                                                                                                                                                                                                                                                                                          US-09-311-784A-159
; Sequence 159, Application US/09311784A
; Patent No. 6534482
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Southwood, Scott
Vitiello, Maria A
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APPLICANT: Sette, Alessandro
APPLICANT: Sidney, John
                                                                                    Best Local Similarity 100.
Matches 10; Conservative
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US-08-159-339A-374
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US-09-239-043D-603
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PRIOR APPLICATION NUMBER: US 08/820,360
PRIOR FILING DATE: 1997-03-12
PRIOR APPLICATION NUMBER: US 60/013,363
PRIOR FILING DATE: 1996-03-13
PRIOR FILING DATE: 1996-03-13
PRIOR FILING DATE: 1996-03-13
PRIOR FILING DATE: 1996-05-05
PRIOR PLING DATE: 1994-12-01
PRIOR PLING DATE: 1994-12-01
PRIOR PLING DATE: 1994-12-01
PRIOR PLING DATE: 1994-07-21
PRIOR PLING DATE: 1994-07-21
PRIOR PLING DATE: 1994-03-04
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1 QAFTFSPTYK 10
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APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Chesnut, Robert
APPLICANT: Epiamune Inc.
TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions
FILE REPERENCE: 2060.0060007
CURRENT APPLICATION NUMBER: US/09/239,043D
CURRENT FILING DATE: 1999-01-27
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PRIOR FILING DATE: 1997-11-25
PRIOR FILING DATE: 1997-11-25
PRIOR PLING DATE: 1997-11-25
PRIOR PELICATION NUMBER: US 08/820,360
PRIOR PELICATION NUMBER: US 60/013,363
PRIOR PELING DATE: 1995-03-13
PRIOR PELING DATE: 1995-06-05
PRIOR PELING DATE: 1994-12-01
PRIOR PELING DATE: 1994-12-01
PRIOR PELING DATE: 1994-11-31
PRIOR PELING DATE: 1994-11-33
PRIOR PELING DATE: 1994-11-33
PRIOR PELING DATE: 1994-07-21
PRIOR PELING DATE: 1994-07-21
PRIOR PELING DATE: 1994-07-21
PRIOR APPLICATION NUMBER: US 08/278,634
PRIOR PELING DATE: 1994-07-21
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PRIOR FILING DATE: 1994-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 2579
SOFTWARE: FastSEQ for Windows Version 4.0
LENGTH: 10
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                                                                                                                                                                ; TYPE: PRT
; ORGANISM: Orthohepadnaviridae hepatitis B virus
US-09-239-043D-1917
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: US 09/189,702 PRIOR FILING DATE: 1998-11-10
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Celis, Esteban
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Southwood, Scott
Vitiello, Maria A.
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APPLICANT:
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ADDRESSEE: Townsend and Townsend and Crew LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         / Sequence 266, Application US/09009953
/ Patent No. 6413517
/ GENERAL INFORMATION:
/ APPLICANT: Sette, Alessandro
/ TITLE OF INVENTION: Identification of Broadly
// Reactive DR Restricted Ep.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; TYPE: PRT
P. ORGANISM Orthohepadnaviridae hepatitis B virus
US-09-239-043D-433
Sequence 433, Application US/09239043D
Patent No. 6689363
GENERAL INFORMATION:
                                                                                     Livingston, Brian D.
Celis, Esteban
                                                  Sidney, John
Southwood, Scott
Vitiello, Maria A.
                                      APPLICANT: Sette, Alessandro
                                                                                                              Kubo, Ralph T.
Grey, Howard M.
Chesnut, Robert
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Best Local Similarity 100.
Matches 10; Conservative
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                                                                                                                                                 Epimmune Inc
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Gaps

Gaps

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APPLICANT: Celis, Esteban
APPLICANT: Celis, Esteban
APPLICANT: Celis, Esteban
APPLICANT: Cary, Howard M.
APPLICANT: Cary, Howard M.
APPLICANT: Chemit, Robert
APPLICANT: Chemit, Robert
APPLICANT: Default, Robert
APPLICANT: Default, Robert
TITLE OF INVENTION: Uning Peptide and Nucleic Acid Compositions
TITLE OF INVENTION: Uning Peptide and Nucleic Acid Compositions
TITLE OF INVENTION: Uning Peptide and Nucleic Acid Compositions
TITLE OF INVENTION: Uning Peptide and Nucleic Acid Compositions
TITLE OF INVENTION: Uning Peptide and Nucleic Acid Compositions
TITLE OF INVENTION: Uning Peptide and Nucleic Acid Compositions
TITLE OF INVENTION: Uning Peptide and Nucleic Acid Compositions
TITLE OF INVENTION: Uning Peptide and Nucleic Acid Compositions
FILING DATE: 1998-11-10
FRICR FILING DATE: 1998-11-25
FRICR FILING DATE: 1995-06-05
FRICR FILING DATE: 1994-11-23
FRICR FILING DATE: 1994-11-23
FRICR FILING DATE: 1994-07-21
                                                              ch 100.0%; Score 54; DB 4; Length 15; 11 Similarity 100.0%; Pred. No. 0.0015; 10; Conservative 0; Mismatches 0; Indels
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; Sequence 2556, Application US/09239043D
; Patent No. 6689363
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Southwood, Scott
Vitiello, Maria A.
Livingston, Brian D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Sette, Alessandro
                                                                                                                                                                                        1 QAFTFSPTYK 10
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Best Local Similarity
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         US-09-311-784A-137
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SEQ ID NO 2122
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APPLICANT: Fikes, John D.
APPLICANT: Fikes, John D.
APPLICANT: Sette, Alessandro
APPLICANT: Sette, Alessandro
APPLICANT: Ishioka, Glenn Y.
APPLICANT: Ishioka, Glenn Y.
APPLICANT: Livingston, Brian
APPLICANT: Chesnut, Robert W.
APPLICANT: Epimmune Inc.
TITLE OF INVENTION: Expression Vectors for Stimulating an
TITLE OF INVENTION: Immune Response and Methods of Using the Same
FILE REFERENCE: 3996-32002.01
CURRENT APPLICATION NUMBER: US/09/311,784A
CURRENT FILING DATE: 1999-05-13
PRIOR FILICATION NUMBER: US/0985,751
PRIOR FILING DATE: 1999-05-15
NUMBER OF SEQ ID NOS: 463
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 137
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                                                                                                                                                                                                    COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
SOFTWARE: FastSED for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/009,953
FILING DATE: 21-Jan-1998
CLASSIFICATION AND ADDA:
APPLICATION NUMBER: US 60/036,713
FILING DATE: 23-JAN-1997
APPLICATION NUMBER: US 60/037,432
FILING DATE: 07-FEB-1997
ATTORNEY/AGENT INFORMATION:
      Two Embarcadero Center, Eighth Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-011520US
TELECOMMUNICATION INFORMATION:
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OTHER INFORMATION: HBV POL 661 (peptide 1298.06)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: linear

MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 266:
US-09-009-953-266
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: 415-576-0300
TELEX: «Unknown»
INFORMATION FOR SEQ ID NO: 266:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 amino acids
TYPE: amino acid
STRANDEDNESS: single
STREET: Two Embarcadero
CITY: San Prancisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE: 415-576-0200
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Best Local Similarity 100.
Matches 10; Conservative
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US-09-311-784A-137
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Gaps

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OPERATING SYSTEM: PC-DOS/MS-DOS
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Best Local Similarity 100.
Matches 10; Conservative
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APPLICANT: Epimmune Inc.
TITLE OF INVENTION: Inducing Cellular Immune Responses to Hepatitis B Virus
TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions
TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions
FILE REFERENCE: 2060.006007
CURRENT APPLICATION NUMBER: US/09/239,043D
CURRENT FILING DATE: 1999-10-27
PRIOR PEPLICATION NUMBER: US 08/978,291
PRIOR PELING DATE: 1999-11-25
PRIOR APPLICATION NUMBER: US 08/920,360
PRIOR APPLICATION NUMBER: US 08/461,603
PRIOR APPLICATION NUMBER: US 08/461,603
PRIOR FILING DATE: 1996-06-05
PRIOR FILING DATE: 1996-06-05
PRIOR FILING DATE: 1994-11-23
PRIOR FILING DATE: 1994-11-23
PRIOR FILING DATE: 1994-07-21
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Patent No. 6607227
GENERAL INFORMATION:
APPLICANT: Chisari, Francis V.
TITLE OF INVENTION: Peptides for Inducing Cytotoxic T
Lymphocyte Responses to Hepatitis B Virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;
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CORRESPONDENCE ADDRESS:
ADDRESSE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
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SOFTWARE: FastSEQ for Windows Version 4.0
LENGTH: 15
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ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMpatible
                                                           Sidney, John
Southwood, Scott
Vitiello, Maria A.
Livingston, Brian D.
Celis, Esteban
                             ette, Alessandro
                                                                                                                                                                                                                 Kubo, Ralph T.
Grey, Howard M.
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US-08-591-502B-49
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APPLICANT:
APPLICANT:
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Gaps
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Sequence 60, Application US/08591502B
Patent No. 6607727
GENERAL INFORMATION:
TIPLE OF INVENTION: Peptides for Inducing Cytotoxic T
Lymphocyte Responses to Hepatitis B Virus
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COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
COMPUTER: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/591,502B
SOFTWARE: PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 99
CORRESPONDENCE ADDRESS:
TOWNSEND and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
                                                                      FILING DATE: 20-May-1996
CLASSIFICATION: UNKnown>
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US 07/749,540
FILING DATE: 26-AUG-1991
APPLICATION NUMBER: US 08/100,870
FILING DATE: 26-AUG-1993
APPLICATION NUMBER: US 08/100,870
FILING DATE: 02-AUG-1993
APPLICATION NUMBER: WO PCT/US94/08685
FILING DATE: 01-AUG-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                            NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 014740-000230US
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CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/749,540
FILING DATE: 26-AUG-1991
APPLICATION NUMBER: US 07/935,898
FILING DATE: 26-AUG-1992
APPLICATION NUMBER: US 08/100,870
FILING DATE: 02-AUG-1993
                           CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/591,502B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-08-591-5028-49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE: (415) 576-0200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: (415) 576-0300 INFORMATION FOR SEQ ID NO: 49:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 730 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRANDEDNESS: <Unknown>
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Gaps
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Patent No. 6607127
GENERAL INFORMATION:
APPLICANT: Chisari, Francis V.
TITLE OF INVENTION: Peptides for Inducing Cytotoxic T
Light Company of the co
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100.0%; Score 54; DB 4; Length 832;
Best Local Similarity 100.0%; Pred. No. 0.086;
Matches 10; Conservative 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
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NAME: Weber, Ellen Lauuver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 014740-000230US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/749,540
FILING DATE: 26-AUG-1991
APPLICATION NUMBER: US 07/935,898
FILING DATE: 26-AUG-1992
APPLICATION NUMBER: US 08/100,870
FILING DATE: 02-AUG-1993
APPLICATION NUMBER: WO PCT/US94/08685
FILING DATE: 01-AUG-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/591,502B
FILING DATE: 20-May-1996
CLASSIFICATION: <UNKNOWN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 62:
US-08-591-5028-62
                                                 ; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 61:
US-08-591-502B-61
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TELEPHONE: (415) 576-0200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 832 amino acids TYPE: amino acid
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   STRANDEDNESS: <Unknown>
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INFORMATION FOR SEQ ID NO: 62
                                  TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                         654 QAFTFSPTYK 663
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US-08-591-502B-62
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Patent No. 6607727
GENERAL INFORMATION:
APPLICANT: Chisari, Francis V.
TITLE OF INVENTION: Peptides for Inducing Cytotoxic T
Lymphocyte Responses to Hepatitis B Virus
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 99
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
                                                                                            NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 014740-000230US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0300
INFORMATION FOR SEQ ID NO: 60:
SEQUENCE CHARACTERISTICS:
LENGTH: 832 anino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
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APPLICATION NUMBER: US/08/591,502B
TLING DATE: 20-May-1996
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/749,540
APPLICATION NUMBER: US 07/749,540
APPLICATION NUMBER: US 07/935,898
FILING DATE: 26-AUG-1992
APPLICATION NUMBER: US 08/100,870
FILING DATE: 02-AUG-1993
APPLICATION NUMBER: WO PCT/US94/08685
FILING DATE: 01-AUG-1994
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REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 014740-000230US
APPLICATION NUMBER: WO PCT/US94/08685
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 60:
US-08-591-5028-60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                  FILING DATE: 01-AUG-1994 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: 61:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 13
US-08-591-502B-61
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REQUIRED A Application US/08591502B

Sequence 65. Application US/08591502B

Sequence 65. Application US/08591502B

Sequence 65. Application US/08591502B

Figure 65. Application US/08591502B

MUMBER OF INVENTION: Perildes for Inducing Cytotoxic T

TILLE OF INVENTION: Perildes for Inducing Cytotoxic T

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STREET: Was Transis Townsend and Townsend and Crew LIP

STREET: USA

COMPUTER READER FORM:
MEDIUM TYPE: Floppy disk

COMPUTER READER FORM:
MEDIUM TYPE: Potpy disk

MEDIUM TYPE: Potpin

MEDIUM TY
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Search completed: June 28, 2005, 09:15:02 Job time : 42 secs

654 QAFTFSPTYK 663

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Sequence 137, App Sequence 137, App Sequence 137, App Sequence 137, App Sequence 2122, Ap Sequence 2556, Ap Sequence 109, App Sequence 109, App

Sequence

Sequence 109, App Sequence 119, App Sequence 111, App Sequence 113, App Sequence 113, App Sequence 386, App Sequence 396, App Sequence 396, App Sequence 396, App Sequence 60, App Sequence 61, Appl Sequence 61, Appl

Sequence 2, 1 Sequence 45, Sequence 47, Sequence 48,

Sequence

Sequence 3 Sequence 4 Sequence 6 Sequence 6 Sequence 6 Sequence 6 Sequence 6 Sequence 6

Scoring table:

Searched:

Minimum DB Maximum DB

Database

Perfect score:

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Run

Sequence:

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ch 100.0%; Score 54; DB 9; Length 10; Il Similarity 100.0%; Pred. No. 0.0025; 10; Conservative 0; Mismatches 0; Indels
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3 US-10-103-395-266
5 US-10-371-525-137
6 US-10-371-645-137
5 US-10-371-645-137
5 US-10-371-645-137
6 US-10-474-960A-415
7 US-10-654-601-2122
US-09-994-018-109
US-09-994-018-109
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                                                                                                                                             US-09-894-018-111
US-10-474-960A-111
US-09-894-018-113
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Patent No. US20020119127A1
GENERAL INFORMATION:
    Sette, Alessandro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Transgenic mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 10; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: EPIMMUNE,
APPLICANT: Sette, A
   US-09-894-018-300
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    325, App
159, App
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159, App
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300, App
603, App
1517, Ap
2534, Ap
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Sequence 6
Sequence 1
Sequence 2
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               version 5.1.6
- 2005 Compugen Ltd.
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US-10-239-313A-325
US-10-371-525-159
US-10-371-645-159
US-10-371-645-159
US-10-371-645-159
US-10-654-601-603
US-10-654-601-1917
US-10-654-601-2534
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US-10-654-601-2534
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                                                                      OM protein - protein search, using sw model
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Maximum Match 100%
Listing first 45 summaries
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                GenCore
Copyright (c) 1993
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1 QAFTFSPTYK 10
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seq length: 200000000
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JGS-10-239-313A-325

JGBUDICATION O. US20030175285A1

JEDICATI KINTORNATION:

JAPPLICANT: CORVAIA, Nathalie

JAPPLICANT: GORVAIA, Nathalie

JAPPLICANT: GORVAIA, Nathalie

JAPPLICANT: GORVAIA, Nathalie

JTILE OF INVENTION: N-TERMINAL A GLUTAMICE CID OR A GLUTAMINE IN THE FORM

TITLE OF INVENTION: N-TERMINAL A GLUTAMIC ACID OR A GLUTAMINE IN THE FORM

TITLE OF INVENTION: N-TERMINAL A GLUTAMIC ACID

FILE REFERENCE: 343 72 - us

CURRENT FILING DATE: 2002-09-19

PRIOR FILING DATE: 2000-03-23

PRIOR FILING DATE: 2000-03-23

PRIOR FILING DATE: 2000-03-23

PRIOR FILING DATE: 2000-03-23

NUMBER OF SEQ ID NOS: 697

SOFTWARE: PATENTIN VET: 2.1

SOFTWARE: PATENTIN VET: 2.1

SEG ID NO 325

TENNING DATE

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SEG ID NO 325
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APPLICANT: Fikes, John D.
APPLICANT: Sette, Alessandro
APPLICANT: Sette, Alessandro
APPLICANT: Ishioka, Glenn Y.
APPLICANT: Livingston, Brian
APPLICANT: Livingston, Brian
APPLICANT: Livingston, Brian
APPLICANT: Epimmune Inc.
TITLE OF INVENTION: Expression Vectors for Stimulating an
TITLE OF INVENTION: Immune Response and Methods of Using the Same
FILE REFERENCE: 39963-20022.01
CURRENT APPLICATION NUMBER: US/10/371,525
CURRENT FILING DATE: 1999-05-12
FRIOR APPLICATION NUMBER: US 99/311,784
PRIOR APPLICATION NUMBER: US 60/085,751
FRIOR APPLICATION NUMBER: US 60/085,751
FRIOR FILING DATE: 1999-05-15
NUMBER OF SEQ ID NOS: 463
SOFTWARE FRASESEQ for Windows Version 3.0
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US-10-371-525-159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 159, Application US/10371525
, Publication No. US20030203869A1
, GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Hepatitis B virus US-10-239-313A-325
                               QAFTFSPTYK 10
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APPLICANT: Fikes, John D.
APPLICANT: Fikes, John D.
APPLICANT: Hermanson, Gary G.
APPLICANT: Hermanson, Gary G.
APPLICANT: Ishioka, Glenn Y.
APPLICANT: Livingston, Brian
APPLICANT: Livingston, Brian
APPLICANT: Livingston, Brian
APPLICANT: Epimmune Inc.
TITLE OF INVENTION: Expression Vectors for Stimulating an
TITLE OF INVENTION: Expression Vectors for Stimulating an
TITLE OF INVENTION: Immune Response and Methods of Using the Same
FILE REFERENCE: 39963-20022.10
CURRENT PILING DATE: 2003-02-21
PRIOR APPLICATION NUMBER: US 09/078,904
PRIOR APPLICATION NUMBER: US 60/085,751
PRIOR FILING DATE: 1998-05-13
PRIOR FILING DATE: 1998-05-15
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APPLICANT: Fikes, John D.
APPLICANT: Fikes, John D.
APPLICANT: Hermanson, Gary G.
APPLICANT: Sette, Alessandro
APPLICANT: Ishloka, Glenn Y.
APPLICANT: Ishloka, Glenn Y.
APPLICANT: Livingston, Brian
APPLICANT: Livingston, Brian
APPLICANT: Epimunne Inc.
ITILE OF INVENTION: Expression Vectors for Stimulating an
ITILE OF INVENTION: Immune Response and Methods of Using the Same
FILE REFERENCE: 3953-20022.11
CURRENT FILING DATE: 2003-66-20
PRIOR APPLICATION NUMBER: US 09/078,904
PRIOR APPLICATION NUMBER: US 09/078,751
PRIOR APPLICATION NUMBER: US 60/085,751
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                                                                    Gaps
      100.0%; Score 54; DB 15; Length 10; 100.0%; Pred. No. 0.0025; Length 10; live 0; Mismatches 0; Indels
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100.0%; Score 54; DB 15; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0025;
Matches 10; Conservative 0; Mismatches 0; Indels
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SOFTWARRE: FastSEQ for Windows Version 3.0
SEQ ID NO 159
LENGTH: 10
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Publication No. US20030216342A1
GENERAL INFORMATION:
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Publication No. US20030216343A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Artificial Sequence
Query Match 100.
Best Local Similarity 100.
Matches 10; Conservative
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US-10-654-601-603
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LENGTH: 10
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Publication No. US20040248113A1
GRNERAL INFORMATION:
GRNERAL INFORMATION:
APPLICANT: Sette, Alessandro
APPLICANT: Chesnut, Robert
APPLICANT: Livingston, Brian
APPLICANT: Newman, Mark
APPLICANT: Mathods and System for Optimizing Multi-epitope Nucleic
TITLE OF INVENTION: Acid Constructs and Peptides Encoded Thereby
FILE REFERENCE: 2060.0320004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Fikes, John D.
APPLICANT: Fikes, John D.
APPLICANT: Fikes, John D.
APPLICANT: Bernanson, Gary
APPLICANT: Hermanson, Gary
APPLICANT: Ishioka, Glenn Y.
APPLICANT: Ishioka, Glenn Y.
APPLICANT: Livingston, Brian
APPLICANT: Epimmune Inc.
TITLE OF INVENTION: Expression Vectors for Stimulating an
APPLICANT: Epimmune Inc.
TITLE OF INVENTION: Immune Response and Methods of Using the Same
FILE REFERENCE: 39963-20022.13
FURNET FILING DATE: 1998-05-13
FRIOR APPLICATION NUMBER: US 09/078,904
FRIOR APPLICATION NUMBER: US 60/085,751
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                                                                                                                                                                     ; FEATURE:
; OTHER INFORMATION: HBV pol 665 (peptide 1090.10)
US-10-371-645-159
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US-10-371-260-159
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 159
LENGTH: 10
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Publication No. US20030220285A1
GENERAL INFORMATION:
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ORGANISM: Artificial Sequence
                                                                                                      TYPE: PRT
ORGANISM: Artificial Sequence
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APPLICANT: Grey, Howard M.
APPLICANT: Chesnut, Robert
APPLICANT: Chesnut, Robert
APPLICANT: Epimmune Inc.
TITLE OF INVENTION: Inducing Cellular Immune Responses to Hepatitis B Virus
TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions
FILE REFERENCE: 2060.0060007
CURRENT APPLICATION NUMBER: US.10/654,601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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SOFTWARE: FastSEQ for Windows Version 4.0
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         CURRENT FILING DATE: 2003-10-16

PRIOR APPLICATION NUMBER: PCT/USOZ/09877

PRIOR FILING DATE: 2002-03-28

PRIOR PILING DATE: 2002-03-28

PRIOR PILING DATE: 2001-06-27

PRIOR APPLICATION NUMBER: US 60/284,221

PRIOR PILING DATE: 2001-06-27

PRIOR PILING DATE: 2001-06-27

PRIOR FILING DATE: 2001-04-16

NUMBER OF SEQ ID NOS: 419

SOFTWARE: FastSEQ for Windows Version 4.0

LENGTH: 10
CURRENT APPLICATION NUMBER: US/10/474,960A
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PRIOR APPLICATION NUMBER: US/09/239,043
PRIOR PILING DATE: 1999-01-27
PRIOR PELING DATE: 1999-01-27
PRIOR PELING DATE: 1998-11-10
PRIOR PELING DATE: 1998-11-10
PRIOR PILING DATE: 1998-11-12
PRIOR PILING DATE: 1997-01-25
PRIOR PILING DATE: 1997-01-25
PRIOR PILING DATE: 1997-03-12
PRIOR PILING DATE: 1997-03-12
PRIOR PILING DATE: 1997-03-12
PRIOR PILING DATE: 1995-06-05
PRIOR PELING DATE: 1995-06-05
PRIOR PELING DATE: 1995-06-05
PRIOR PILING DATE: 1994-05-05
PRIOR PILING DATE: 1994-06-05
PRIOR PILING DATE: 1994-06-05
PRIOR PILING DATE: 1994-11-03
PRIOR PILING DATE: 1994-11-03
PRIOR APPLICATION NUMBER: US 08/344,824
PRIOR PILING DATE: 1994-11-03
PRIOR APPLICATION NUMBER: US 08/344,824
PRIOR PILING DATE: 1994-11-03
PRIOR PILING DATE: 1994-11-03
PRIOR PILING DATE: 1994-07-01
PRIOR PILING DATE: 1994-07-01
PRIOR PILING DATE: 1994-07-01
PRIOR PILING DATE: 1994-03-04
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COTHER INFORMATION: Sequence for epitope
US-10-474-960A-300
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Publication No. US20050063983A1
GENERAL INFORMATION:
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Celis, Esteban
                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Artificial sequence
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Southwood, Scott
Vitiello, Maria A.
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Best Local Similarity 100.
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APPLICANT: Kubo, Ralph T.
APPLICANT: Chesnut, Robert
APPLICANT: Epimmune Inc.
TITLE OF INVENTION: Inducing Peptide and Nucleic Acid Compositions
TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions
TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions
TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions
TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions
FILE REFERENCE: 2060.006007
CURRENT APPLICATION NUMBER: US 09/239,043
PRIOR PILING DATE: 1999-01-27
PRIOR APPLICATION NUMBER: US 08/820,360
PRIOR PILING DATE: 1997-03-12
PRIOR PILING DATE: 1999-06-05
PRIOR PILING DATE: 1999-06-05
PRIOR APPLICATION NUMBER: US 08/347,610
PRIOR APPLICATION NUMBER: US 08/347,610
PRIOR APPLICATION NUMBER: US 08/347,610
PRIOR PILING DATE: 1994-11-23
PRIOR PILING DATE: 1994-03-04
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APPLICANT: Celis, Esteban
APPLICANT: Celis, Esteban
APPLICANT: Kubo, Ralph T.
APPLICANT: Chesnut, Robert
APPLICANT: Epimmune Inc.
TITLE OF INVENTION: Inducing Cellular Immune Responses to Hepatitis B Virus
TITLE OF INVENTION: Using Peptide and Nucleic Acid Compositions
FILE REFERENCE: 2060.0060007
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ilarity 100.0%; Pred. No. 0.0025;
Conservative 0; Mismatches 0;
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Publication No. US20050063983A1
GENERAL INFORMATION:
                                                                          Sidney, John
Southwood, Scott
Vitiello, Maria A.
Livingston, Brian D
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APPLICANT: Sidney, John
APPLICANT: Southwood, Scott
APPLICANT: Vitiello, Maria A
APPLICANT: Livingston, Brian I
APPLICANT: Cells, Esteban
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Chesnut, Robert
     Publication No. US20050063983A1
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Southwood, Scott
Vitiello, Maria A.
                                                   APPLICANT: Sette, Alessandro
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Matches 10; Conser
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APPLICANT:
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                                                                        Query Match 100.0%; Score 54; DB 17; Length 10; Best Local Similarity 100.0%; Pred. No. 0.0025; Matches 10; Conservative 0; Mismatches 0; Indels
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; ORGANISM: Orthohepadnaviridae hepatitis B virus
US-10-654-601-603
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US-10-654-601-2534
. Sequence 2534, Application US/10654601
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Publication No. US20050063983A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                        Sidney, John
Southwood, Scott
Vitiello, Maria A.
Livingston, Brian D.
Celle, Esteban
Kubo, Ralph T.
Grey, Howard M.
                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Sette, Alessandro
APPLICANT: Sidney, John
APPLICANT: Southwood, Scott
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chesnut, Robert
Epimmune Inc.
                                                                                                                                                                         1 QAFTFSPTYK 10
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Gaps

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JAPELICANT: Fikes, John D.

APPLICANT: Fikes, John D.

APPLICANT: Sette, Alessandro

APPLICANT: Sette, Alessandro

APPLICANT: Sette, Alessandro

APPLICANT: Sette, Alessandro

APPLICANT: Livingston, Brian

APPLICANT: Livingston, Brian

APPLICANT: Chesnut, Robert W.

APPLICANT: Expression Vectors for Stimulating an Intimulate OF INVENTION: Immune Response and Methods of Using the Same FILE REFERENCE: 39963-2002.01

CURRENT APPLICATION NUMBER: US 0/03/311,784

PRIOR PELING DATE: 1999-05-13

PRIOR PELING DATE: 1999-05-13

PRIOR PELING DATE: 1999-05-15

NUMBER OF SEQ ID NOS: 463

SOFTWARER: FastSEQ for Windows Version 3.0

LENGTH: 15
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APPLICANT: EPIMONE Inc.
APPLICANT: Fikes, John D.
APPLICANT: Hermanon, Gary G.
APPLICANT: Sette, Alessandro
APPLICANT: Ishioka, Glenn Y.
APPLICANT: Livingston, Brian
APPLICANT: Chesnut, Robert W.
APPLICANT: Epimoune Inc.
TITLE OF INVENTION: Expression Vectors for Stimulating an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 15;
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100.0%; Score 54; DB 15;
Best Local Similarity 100.0%; Pred. No. 0.0038;
Matches 10; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; OTHER INFORMATION: HBV POL 661 (peptide 1298.06)
US-10-371-525-137
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CURRENT APPLICATION NUMBER: US/10/371,069
CURRENT FILING DATE: 2003-02-21
PRIOR APPLICATION NUMBER: US 09/078,904
PRIOR FILING DATE: 1998-05-13
PRIOR FILING DATE: 1998-05-15
NUMBER: OF SEQ ID NOS: 463
SEQ ID NO 137
LENGTH: 15
LENGTH: 15
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Publication No. US20030216342A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                   Application US/10371525
5. US20030203869A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
                          QAFTFSPTYK 10
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                                                                                                      2 OAFTFSPTYK 11
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CURRENT FILING DATE: 2003-09-04

PRIOR APPLICATION NUMBER: US/09/239,043

PRIOR PILING DATE: 1999-01-27

PRIOR PILING DATE: 1999-01-27

PRIOR PILING DATE: 1999-01-27

PRIOR PILING DATE: 1999-01-27

PRIOR PILING DATE: 1999-11-10

PRIOR PILING DATE: 1999-11-10

PRIOR PILING DATE: 1997-10-12

PRIOR APPLICATION NUMBER: US 60/013,363

PRIOR APPLICATION NUMBER: US 60/013,363

PRIOR PILING DATE: 1995-03-13

PRIOR PILING DATE: 1995-06-03-13

PRIOR PILING DATE: 1995-11-23

PRIOR APPLICATION NUMBER: US 08/44,824

PRIOR APPLICATION NUMBER: US 08/344,824

PRIOR PILING DATE: 1994-11-23

PRIOR PILING DATE: 1994-07-21

PRIOR PILING DATE: 1994-07-21
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| Sequence 266, Application US/10103395
| Publication No. US20020160019A1
| GENERAL INPORMATION:
| APPLICANT: Sette, Alessandro
| APPLICANT: Sette, Alessandro
| APPLICANT: Sette, Alessandro
| APPLICANT: Southwood, Scott
| TITLE OF INVENTION: DENTIFICATION OF BROADLY REACTIVE DR
| TITLE OF INVENTION: RESTRICTED EPITOPES
| FILE REFERENCE: 3986-20016.01
| CURRENT APPLICATION NUMBER: US/10/103,395
| CURRENT FILING DATE: 2003-01-03
| PRIOR PILING DATE: 1998-01-21
| PRIOR PILING DATE: 1998-01-23
| PRIOR PILING DATE: 1998-01-23
| PRIOR PILING DATE: 1997-01-23
| PRIOR FILING DATE: 1997-02-37
| NUMBER OF SEQ ID NOS: 274
| SEQ ID NOS: 274
| SEQ ID NOS: 274
| CONTRACT OF TAXABLE PRIOR OF TA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Score 54; DB 13; Length 15; 100.0%; Pred. No. 0.0038; Live 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 , ORGANISM: Orthohepadnaviridae hepatitis B virus US-10-654-601-433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 100.
Best Local Similarity 100.
Matches 10; Conservative
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US-10-103-395-266
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Sequence 137, Application US/10371645

Publication No. US20030216343A1

GENERAL INFORMATION:

APPLICANT: Fikes, John D.

APPLICANT: Fikes, John D.

APPLICANT: Sette, Alessandro

APPLICANT: Ishicka, Glenn Y.

APPLICANT: Ishicka, Glenn Y.

APPLICANT: Lesnut, Robert W.

APPLICANT: Lesnut, Robert W.

APPLICANT: Epimmune Inc.

TITLE OF INVENTION: Expression Vectors for Stimulating an TITLE OF INVENTION: Expression Vectors of Using the Same FILE REFERENCE: 3963-2002.11

TITLE OF INVENTION: Immune Response and Methods of Using the Same FILE REPERENCE: 3963-2002.11

CURRENT FILING DATE: 1998-05-13

PRIOR APPLICATION NUMBER: US 69/078,904

PRIOR APPLICATION NUMBER: US 60/085,751

PRIOR FILING DATE: 1998-05-15

NUMBER OF SEQ ID NOS: 463

SEQ ID NO 137

LENGRIH: 15

WADEL DATE: 1998-05-15

LENGRIH: 15

LENGRIH: 15
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                                                                                                                              Query Match 100.0%; Score 54; DB 15; Length 15; Best Local Similarity 100.0%; Pred. No. 0.0038; Matches 10; Conservative 0; Mismatches 0; Indels
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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HBV POL 661 (peptide 1298.06)
US-10-371-069-137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT ORGANISM: Artificial Sequence PEATURE: CHARLE INFORMATION: HBV POL 661 (peptide 1298.06) US-10-371-645-137
                                                                                                                                                                                                                                  1 QAFTFSPTYK 10
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US-10-371-645-137
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